

AMENDMENT

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently amended) An amino acid sequence comprising a diabetogenic epitope ~~selected from the group consisting of isoforms of gliadin proteins or Glb1~~ defined by EEQLRELRRQ (SEQ ID NO:1).

2. (Canceled)

3. (Currently amended) The ~~diabetogenic epitope~~ amino acid sequence of claim 1, wherein the diabetogenic epitope comprises ~~comprising~~ part of a larger peptide or protein that does not occur naturally in nature.

4. (Currently amended) The ~~diabetogenic epitope~~ amino acid sequence of claim 1, wherein said ~~epitope~~ amino acid sequence is attached to a carrier protein, non-carrier protein, macromolecule or support.

5. (Currently amended) The ~~diabetogenic epitope~~ amino acid sequence of claim 4, wherein said ~~diabetogenic epitope~~ amino acid sequence is attached to a support, said support comprising a bead, plate, dish, cover slip, slide, multiwell assay plate, or bio-assay chip.

6–20. (Canceled)

21. (Currently amended, Withdrawn) A kit comprising one or more of the amino acid sequences according to claim 1 ~~1) a diabetogenic epitope, 2) a protein or peptide comprising a diabetogenic epitope, 3) a non-protein carrier or macromolecule comprising the diabetogenic epitope, 4) a support comprising the diabetogenic epitope, 5) a diabetogenic epitope attached to a non-covalent association agent, 6) a nucleotide sequence encoding a diabetogenic epitope or peptide~~

~~or protein comprising the diabetogenic epitope, 7) a nucleotide sequence complementary to a nucleotide sequence encoding a diabetogenic epitope, 8) a nucleotide sequence complementary to a portion of a nucleotide sequence encoding a diabetogenic protein, or a combination thereof.~~

22–23. (Canceled)

24. (Original, Withdrawn) The kit of claim 21, further comprising one or more beads, plates, dishes, coverslips, slides, multi-well assay plates, bioassay chips, which may be attached or unattached to the diabetogenic epitope, protein or peptide comprising the diabetogenic epitope, nucleotide sequence encoding the diabetogenic epitope, sequence complementary thereto, or fragment thereof.

25. (Original, Withdrawn) The kit of claim 21, further comprising one or more primary antibodies capable of binding to the diabetogenic epitope, or protein comprising the diabetogenic epitope, one or more secondary antibodies that are capable of binding to the primary antibody, solutions, reagents, enzymes, or a combination thereof.

26–35. (Canceled)

36. (New) The amino acid sequence of claim 1, said amino acid sequence comprises SEQ ID NO: 4.